What? Me Worry? Fielding Technology and Products

Presented to:

USSOCOM CBRN Conference
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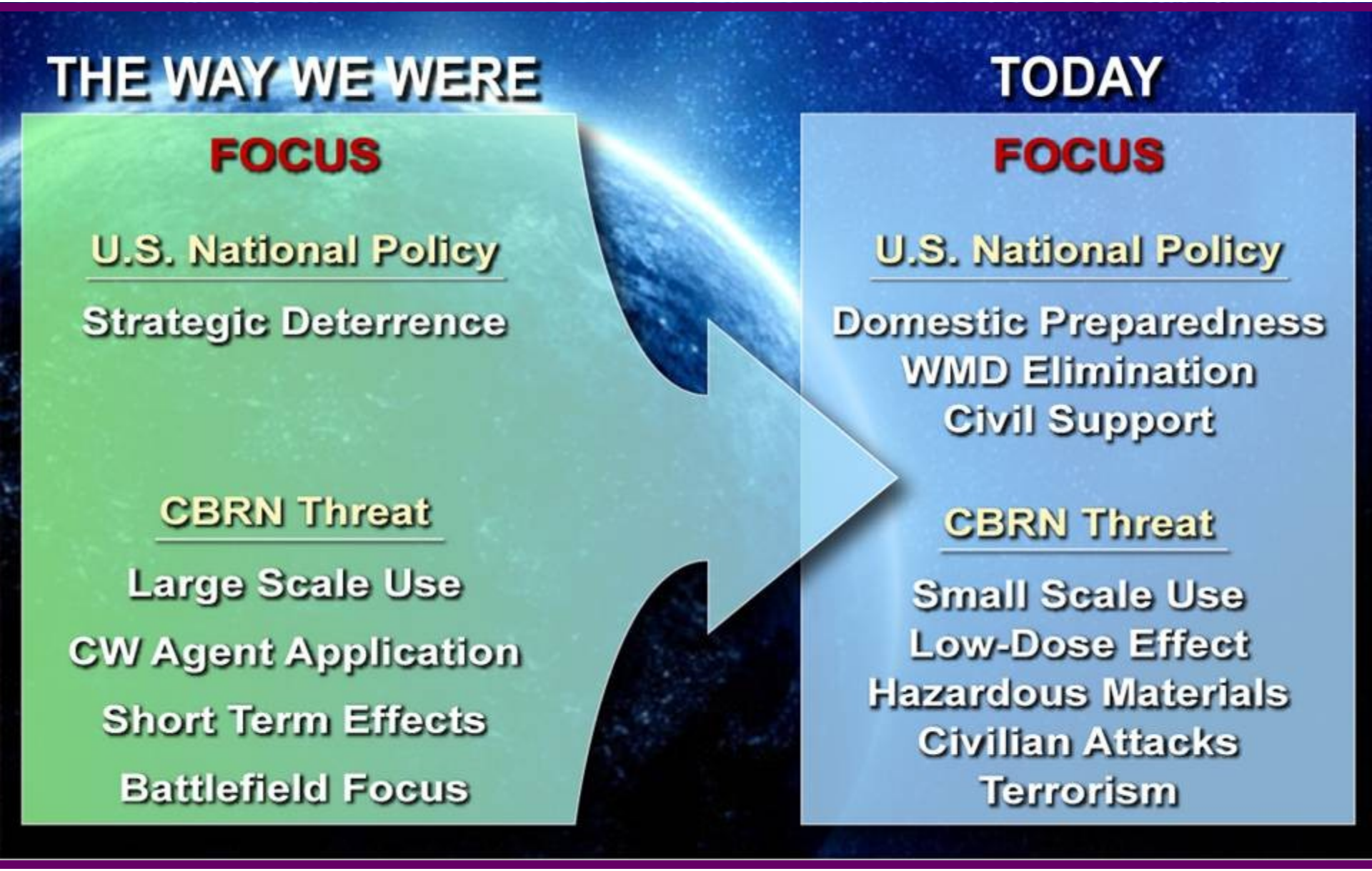
Policy and Threat



Chemical and Biological Defense

Expanding Roles and Missions

Infrastructure | **Power Projection** | **Battle Space**

"Threats"

"Classic" CBW

Bio-Engineered and "Non-Traditional" Threats

Environmental Threats- TICs/TIMs

Environmental/ Medical Surveillance Infectious Diseases

Re-Focusing CBRN Defense

Doctrine

- Contamination Avoidance
- Eliminating CBRN Threat
- Standards
  - Operational
  - Technical
- Chem/ Bio Agents
  - Specificity vs. Generic
  - Reduce False Results
  - Low-Level Detection
- Protection
  - Heat Stress Reduction
  - Respiration
- Decontamination
  - Environmental Impacts
- Medical
  - Broad Spectrum Vaccines
  - "Just-In-Time"

Technology

Force Development

- Domestic Support
- Specialized Organizations
- Homeland Defense

Materiel

- New Detection Capabilities
  - Expanded Threats
- Joint Service Developments
- Stand-Off Detection

Becoming Technology Carnivores

SUBSTANTIAL INDUSTRY INTEREST

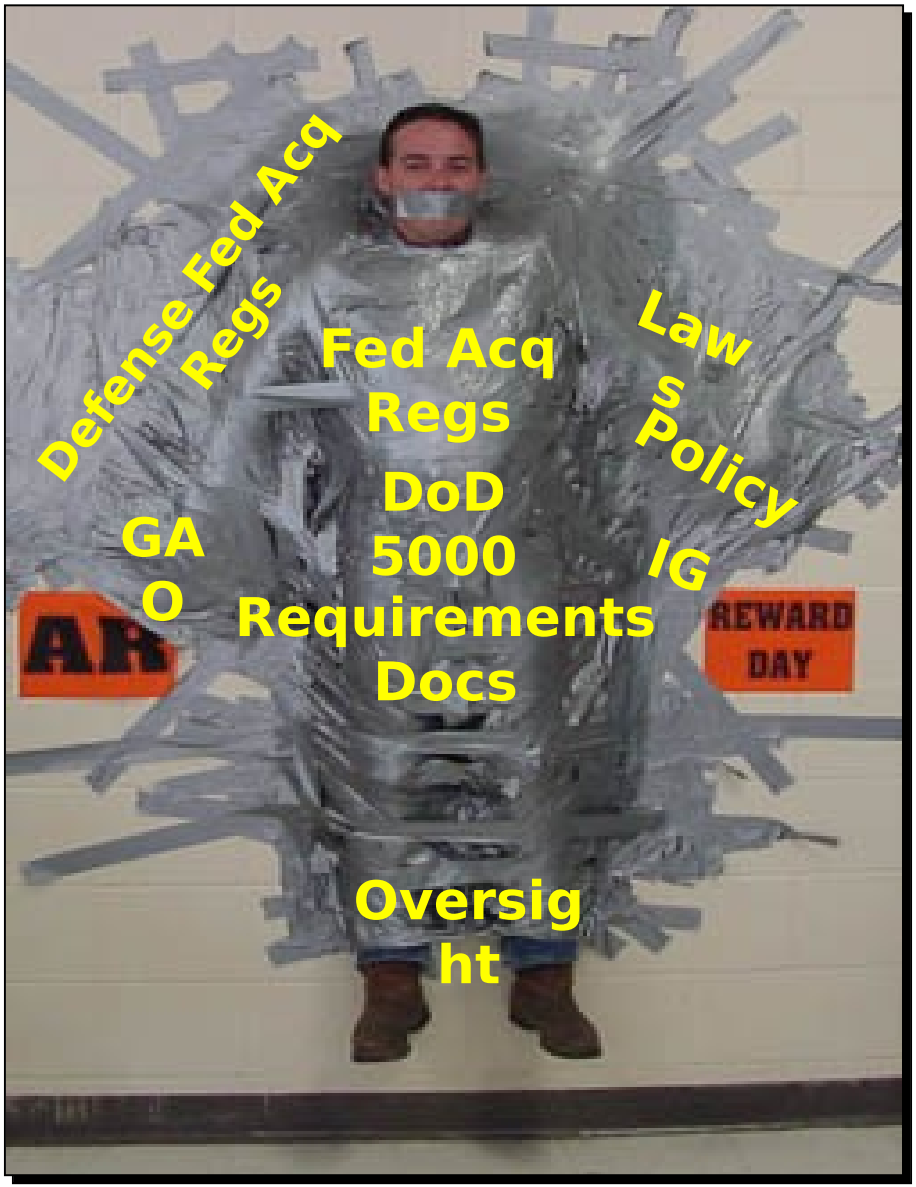
RESULT:
More Mature Technologies

CHALLENGE:
Selecting Best Available

OUTCOME:
Shorter Development Timelines

Delivering Joint Warfighting Capabilities

The Perception



Some Recent Mail…

"…the U.S. Military has been jeopardized by the Department's acquisition policy…"

"…the Army is Preventing the first responders from purchasing the technology…"

"…this potentially invaluable product may be in jeopardy due to the Department's acquisition policies…"

Why We Test

Business Indicted for Alleged False Claims on Anthrax Disinfectant

Associated Press; Oct 1, 2004

ATLANTA – A former Norcross businessman has been charged with misleading investors into believing his company had a product that could destroy anthrax spores.

A Federal grand jury indicted 46-year-old Timothy C. Moss, former chairman, president, and chief executive of International BioChemical Industries, Inc., on Wednesday with securities fraud and perjury.

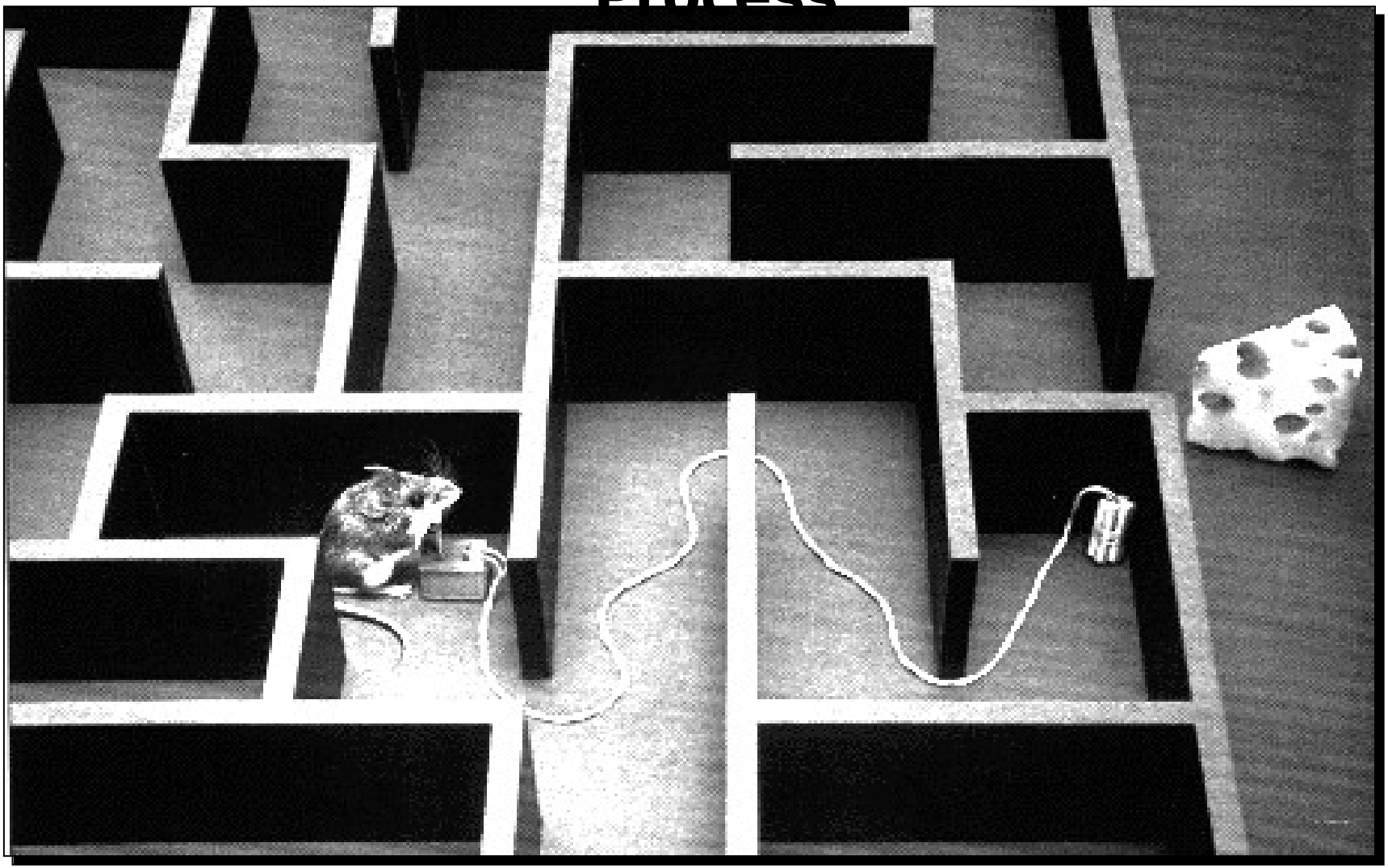
The indictment said the company issued misleading news releases claiming it had a product that could kill anthrax spores, after contaminated letters were mailed to government offices and news media in October 2001. Trading volume on the firm's shares soared, and its stock price tripled as a result.

But in March 2002, the U.S. Environmental Protection Agency found that studies of the company's anthrax disinfectant products failed to prove they worked, the indictment said.

Investors duped by the claims lost $1 million to $2.5 million, it added.

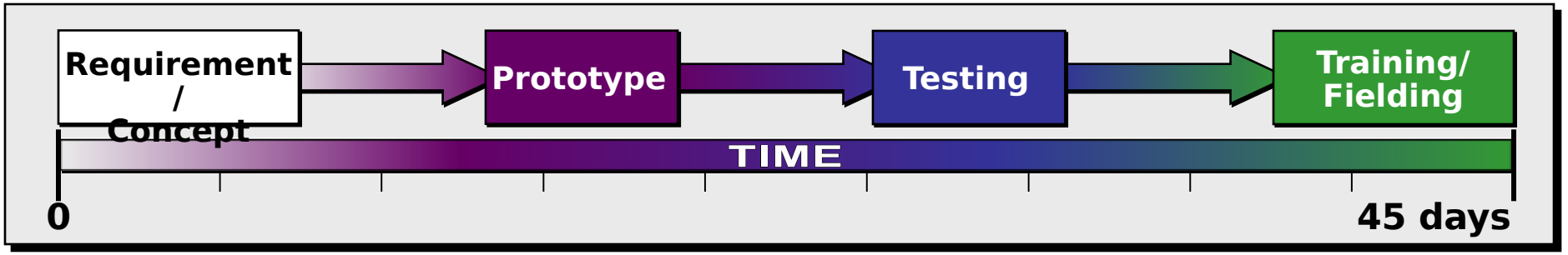
John Christy, who is representing Moses in a civil case brought by the Securities and Exchange Commission, said Thursday he had not seen the criminal indictment.

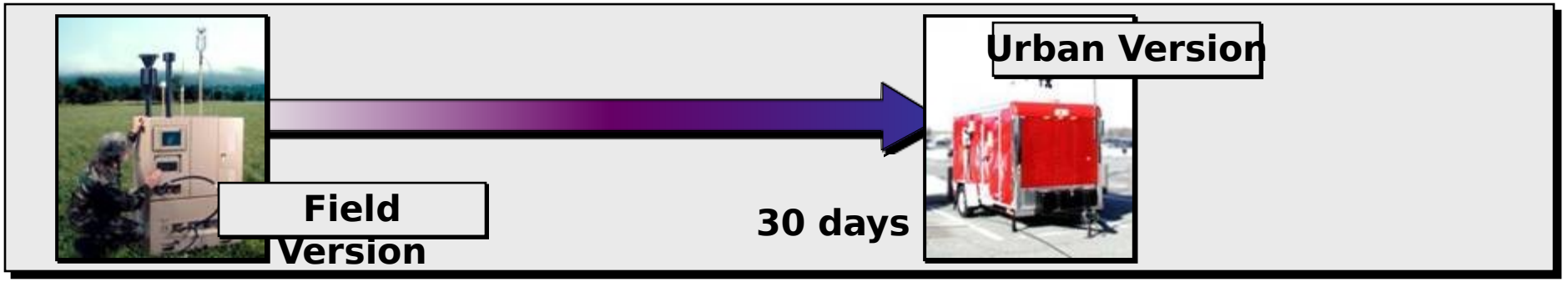
Acquisition Leaders Who Can Work the Process

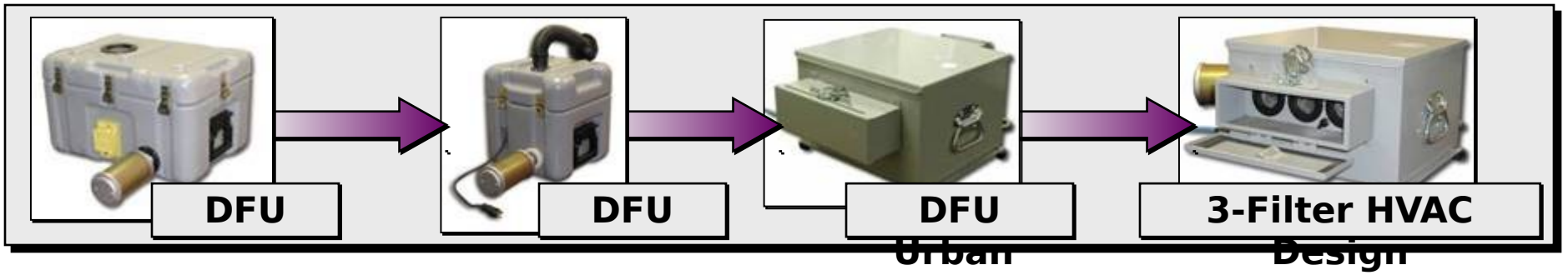


… And Field Systems

Collaborative Design, Engineering, and Fielding







Prudent Risk – Immediate, Adaptive RDA

Delivering SOCOM Capabilities

JPEO-CBD Joint Project Managers

Information Systems

San Diego, CA

CAPT TOM O'KEEFE (NAVY)

NBC Contamination Avoidance

Edgewood, MD

COL DON BURNETT (ARMY)

Chemical Biological Medical Systems

Frederick, MD

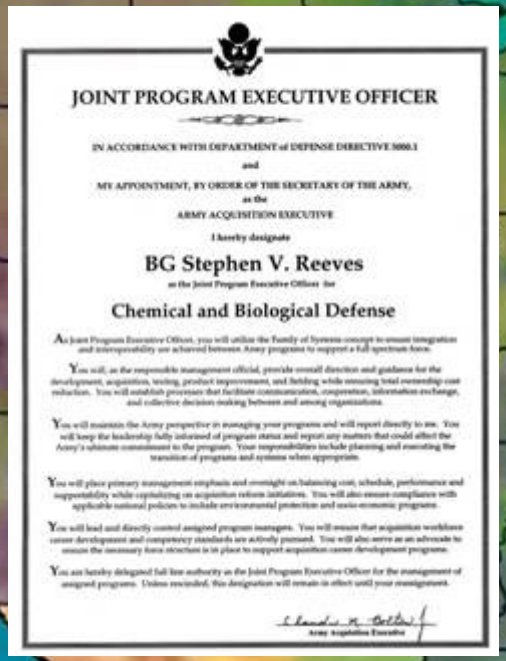
COL STEPHEN BERTÉ (ARMY)

Collective Protection

Washington DC

MR STAN ENATSKY (NAVY)

JPMs Leverage Service/ Installation Matrix Support



JOINT PROGRAM EXECUTIVE OFFICER

IN ACCORDANCE WITH DEPARTMENT of DEFENSE DIRECTIVE 5000.1

and

MY APPOINTMENT, BY ORDER OF THE SECRETARY OF THE ARMY,

as the

ARMY ACQUISITION EXECUTIVE

I hereby designate

BG Stephen V. Reeves

as the Joint Program Executive Officer for

Chemical and Biological Defense

As Joint Program Executive Officer, you will utilize the Family of Systems concept to ensure integration and interoperability are achieved between Army programs to support a full spectrum force.

You will, as the responsible management official, provide overall direction and guidance for the development, acquisition, testing, product improvement, and fielding while ensuring total ownership cost reduction. You will establish processes that facilitate communication, cooperation, information exchange, and collective decision making between and among organizations.

You will maintain the Army perspective in managing your programs and will report directly to me. You will keep the leadership fully informed of program status and report any matters that could affect the Army's ultimate commitment to the program. Your responsibilities include planning and executing the transition of programs and systems when appropriate.

You will place primary management emphasis and oversight on balancing cost, schedule, performance and supportability while capitalizing on acquisition reform initiatives. You will also ensure compliance with applicable national policies to include environmental protection and socio-economic programs.

You will lead and directly control assigned program managers. You will ensure that acquisition workforce career development and competency standards are actively pursued. You will also serve as an advocate to ensure the necessary force structure is in place to support acquisition career development programs.

You are hereby delegated full line authority as the Joint Program Executive Officer for the management of assigned programs. Unless rescinded, this designation will remain in effect until your reassignment.

Army Acquisition Executive

Individual Protection

Quantico, VA

MR DOUG BRYCE (USMC)

Decon

San Antonio, TX

COL AL BURNETT (USAF)

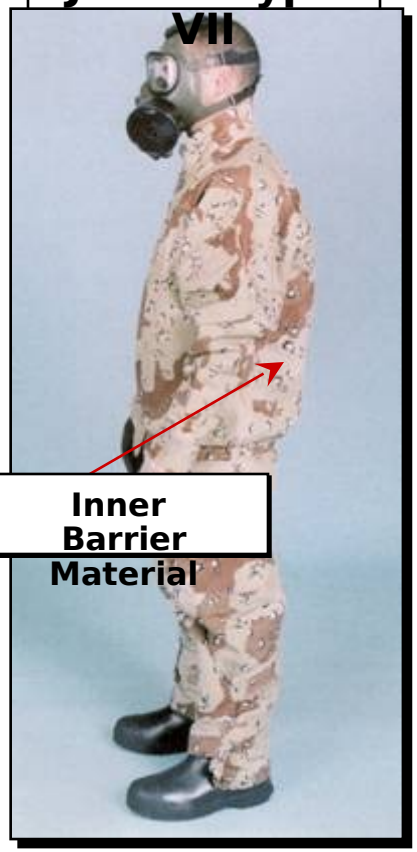
Guardian

Falls Church, VA

COL CAMILLE NICHOLS (ARMY)

JPEO-CBD Equipment Used/ in Development for SOCOM

JSLIST Type VII

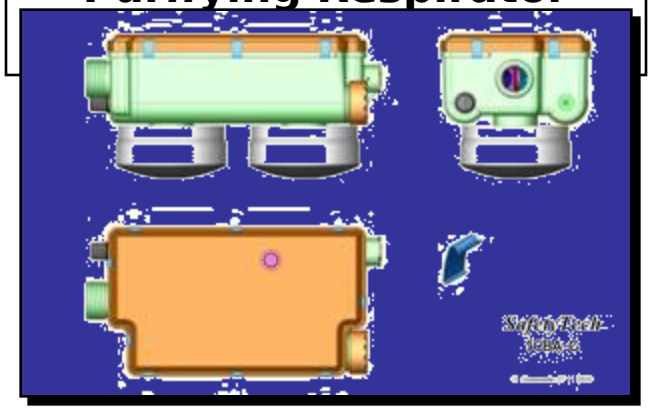


M45 Mask with Voice

M45 Mask Medical Oxygen Adapter

M45 Mask

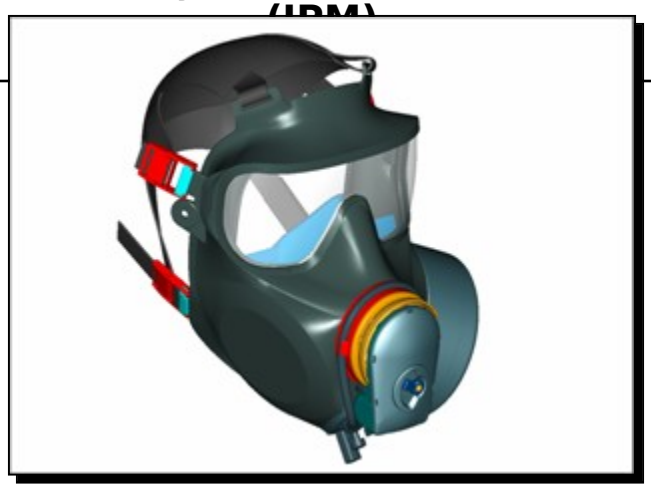
Improved Powered Air Purifying Respirator



Skin Exposure Reduction Paste Against Chemical Warfare Agents

JPEO-CBD Equipment Used/ in Development for SOCOM

Improved Protective Mask, Currently Known As The XM53 (IPM)



M45 SCBA Adapter and Hydration System Project

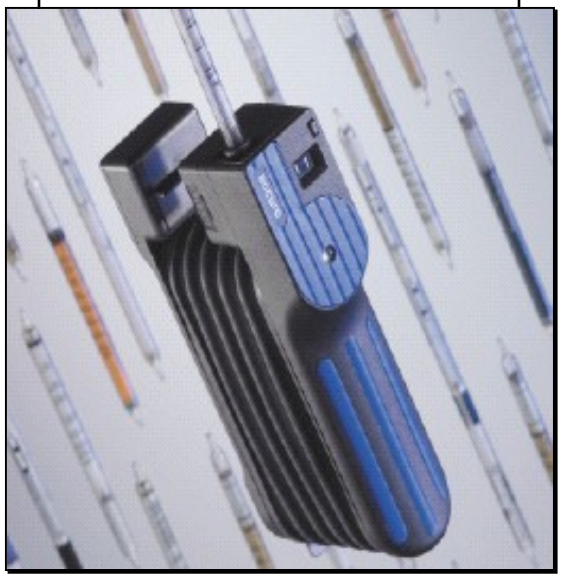
Micronel C420 Remote on off Cable Project

C420 Blower Development for Use With the M45

SCBA Regulator Development

JPEO-CBD Equipment Used/ in Development for SOCOM

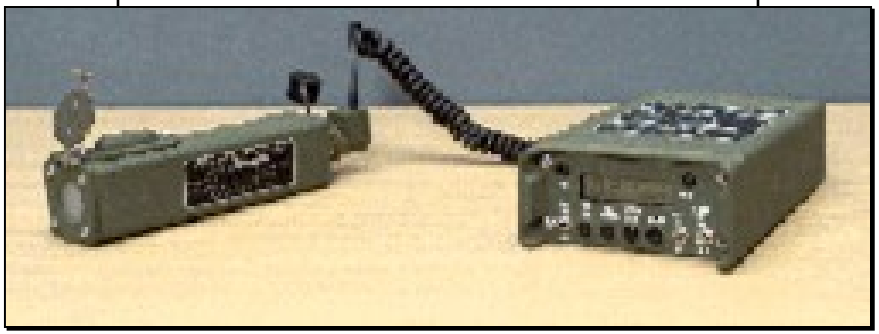
Draeger TIC Detection Kits



Modified Automatic Chemical Agent A…A)

Joint Chemical Agent Detector (JCAD)

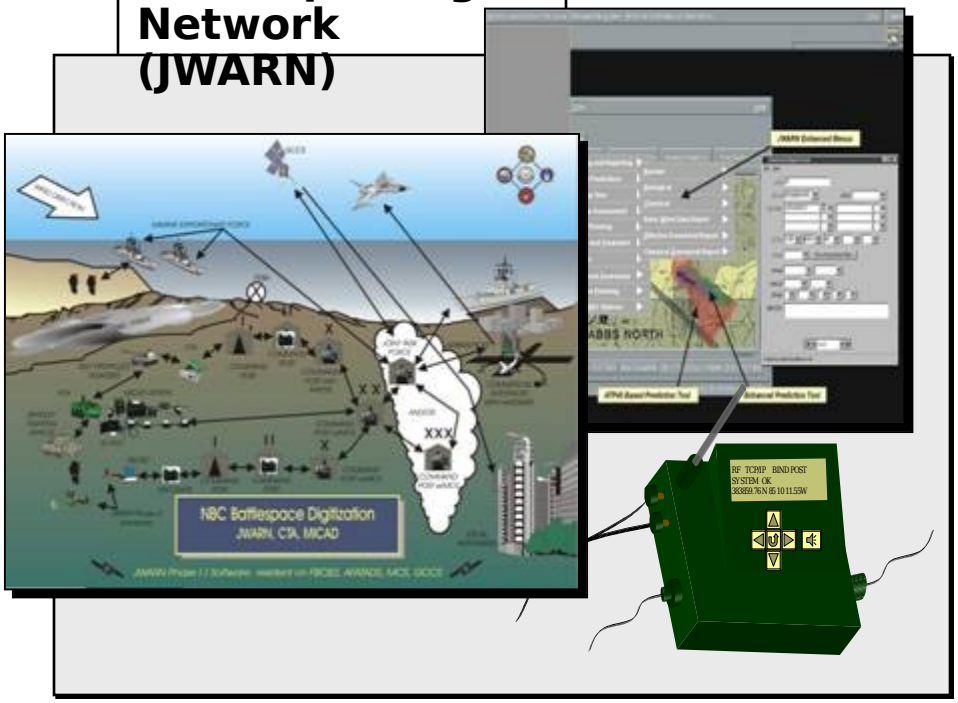
AN/VDR-2 Radiac



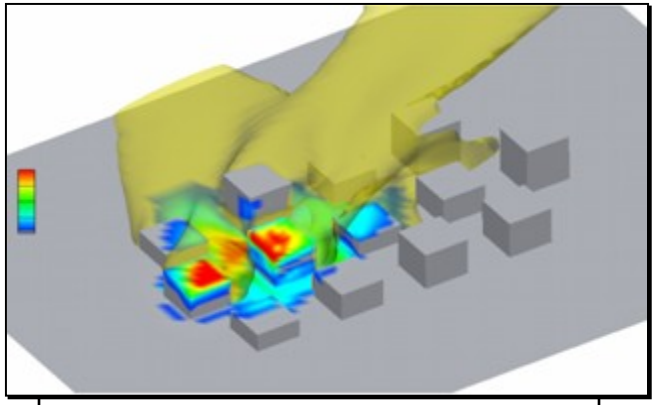
Improved Chemical Agent Monitor (ICAM)

JPEO-CBD Equipment Used/ in Development for SOCOM

Joint Warning and Reporting Network (JWARN)



Joint Effect Module (JEM)



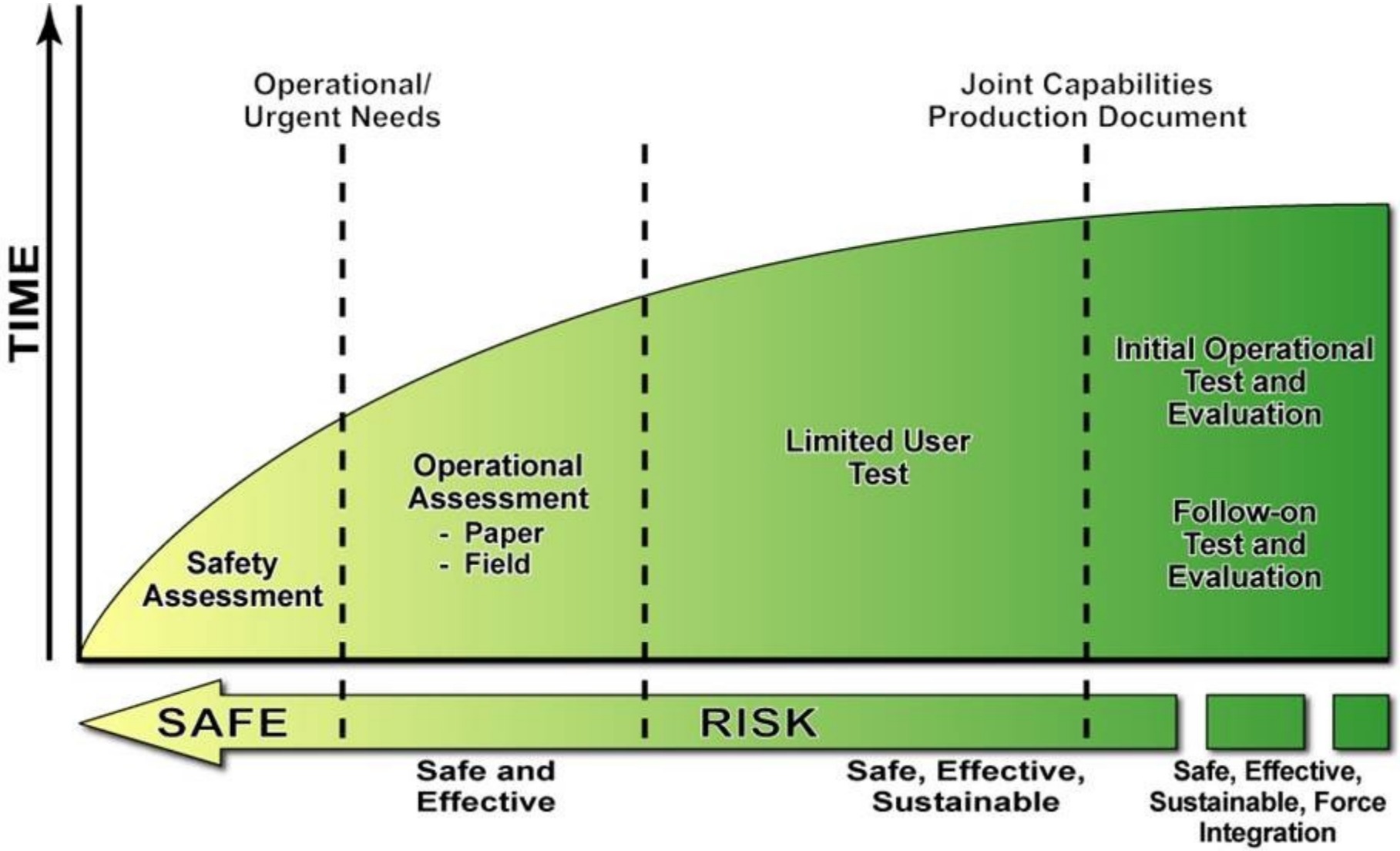
Joint Operational Efforts Federation (JOEF)

JPEO-CBD Equipment Used/ in Development for SOCOM

M100 Sorbent Decon Systems

Meeting Fielding Standards

The Standard



Meeting Standards

"JUST BUY IT!"

- **Urgent Need/ Special Purpose Requirements**
  - Range of Testing - Judgment Call
    - Operational Environment
      - Lab Test ≠ Field Test
    - Life-Saving?
    - Existing Data
    - Performance Needed
      - New Capability?
      - Some Better than None?
      - Minimum Required?
    - Manufacturers Matter
      - Quality Assurance, Capacity, etc.
- **Safety Non- Negotiable**

Test and Evaluation Options

Environmental Testing – A Menu

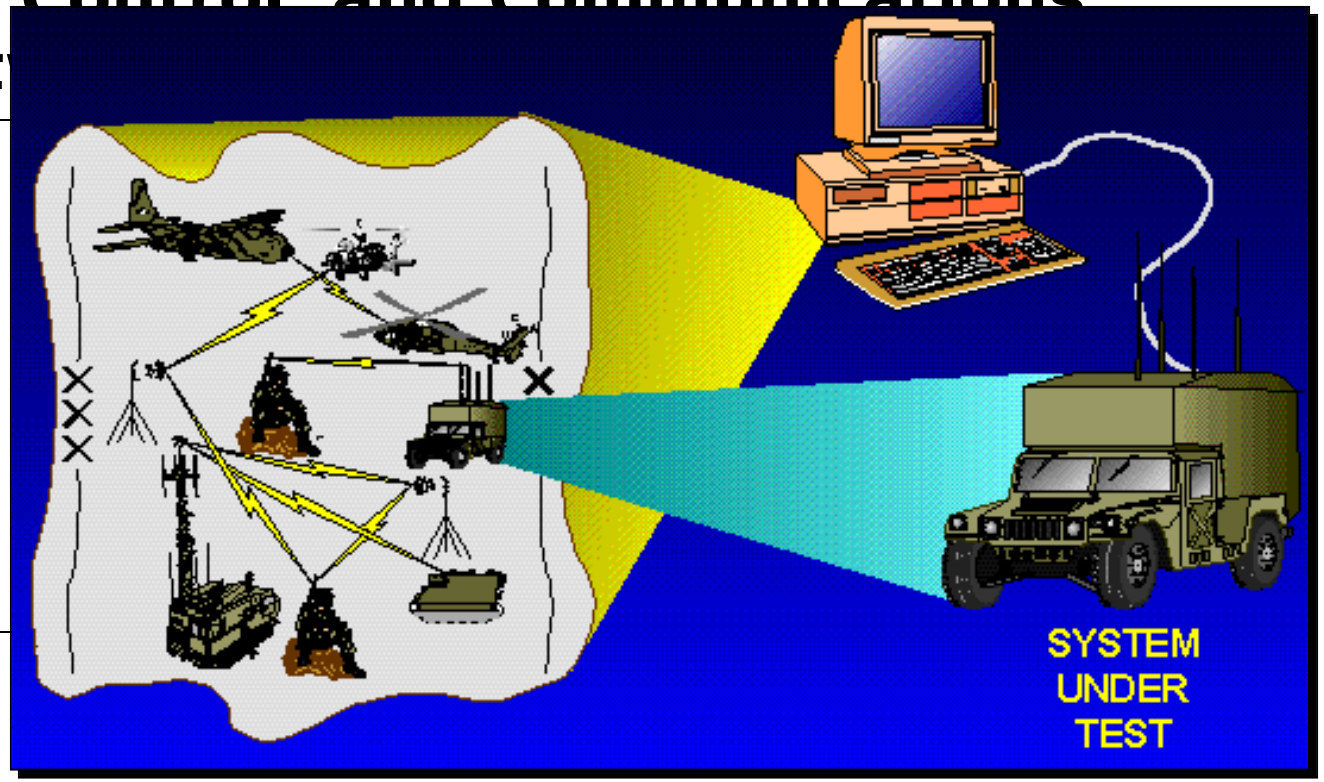
- Reduced Pressure
- Contamination
- Lightning Near Strike
- Immersion
- Dust Blowing, Settling
- Humidity
- Sand Blowing
- Operating Temperature, High – Low
- Electromagnetic Environmental Effects
- Storage Temperature, High - Low
- Altitude
- Salt Fog
- Rain Drip, Blowing
- Fungus
- Smoke
- Vibration
- Noise Level
- Rail Hump Test
- Shipboard Shock Test
- Shock – Bench Handling, Packaging, Transit Drop

Survivability

- **Live Fire**
  - **Vulnerability**
  - **Lethality**
- **NBC Contamination Survivability**
- **Information Assurance**
- **Nuclear Survivability**
- **Electromagnetic Environmental Effects**

Interoperability

- Critical in System-of-Systems Testing
- Software/Hardware Compatibility and Interfaces
- Network Intensive
- Command, Control, and Communications Across Net



Suitability

Logistics Support

Logistics Burden

Institutional Training

New Equipment Training

Maintenance & Supply

Urban Environments, Installation Protection

Urban Environments

Phoenix, AZ
122°F

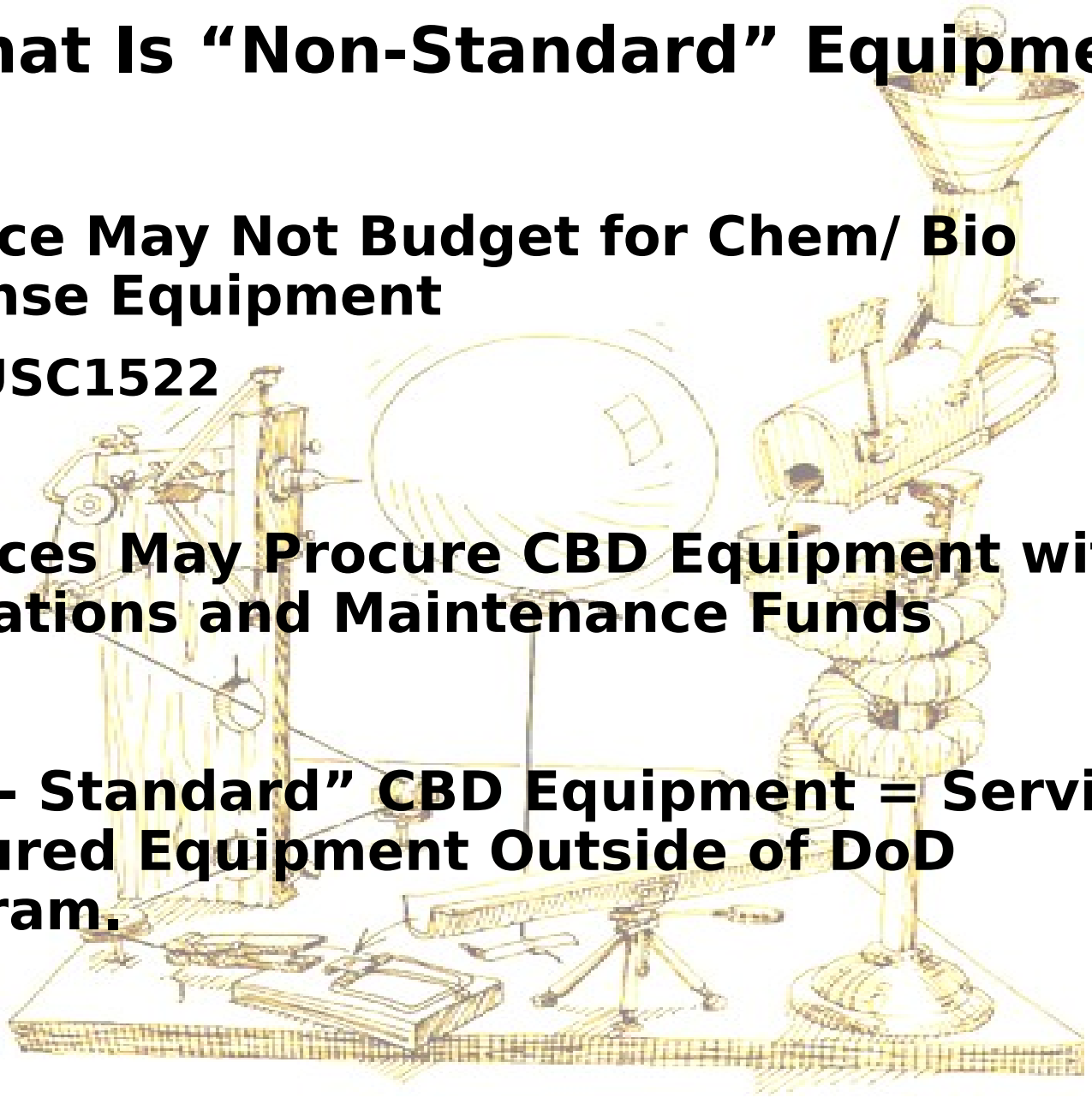
Nebraska-
7” Hail
June 2003

Hawaii
130”/ Year
Rainfall

St. Paul,
MN
-33°F

Some Ruggedness Required

What Is "Non-Standard" Equipment



- **Service May Not Budget for Chem/ Bio Defense Equipment**
  - **50USC1522**
- **Services May Procure CBD Equipment with Operations and Maintenance Funds**
- **"Non- Standard" CBD Equipment = Service Procured Equipment Outside of DoD Program.**

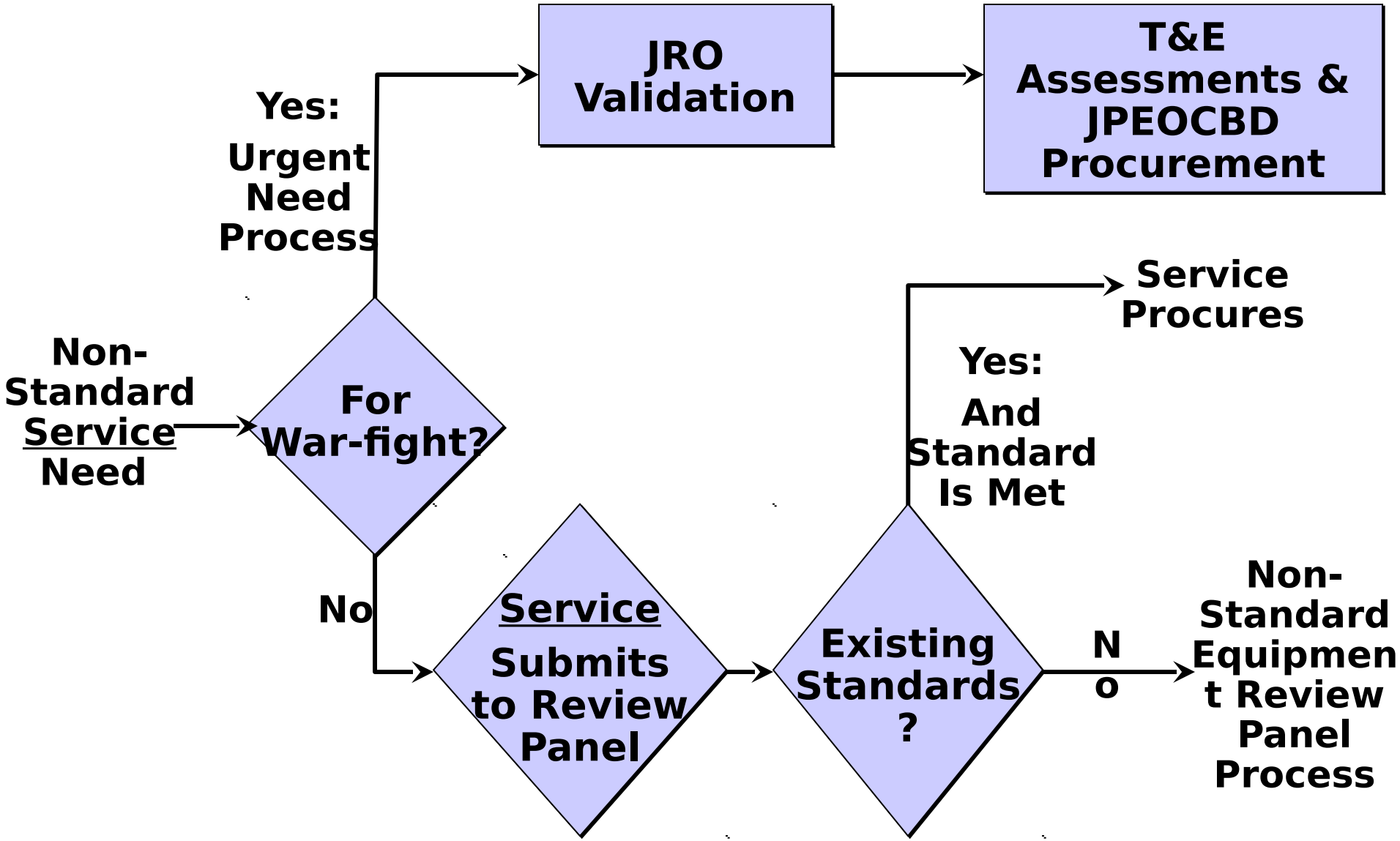
Non-Standard Equipment Review Panel

ATSD (NCB) Memo: Subject: Non-Standard Equipment *

- **Directed to all Service Secretaries and NGB**
- **Directs JPEO-CBD Establish Panel to Review Service CBDE Purchases for DoD Civilian Consequence Management Applications**
  - **Independent Civilian or Government Testing**
  - **Applies to Current, Previously Procured Equipment and Future Purchase**
- **Objectives: Ensure Safe, Suitable and Effective Capabilities are Procured**
  - **For the First Time, Non-Standard Procurements Taken Through a Disciplined Process**
- **This is Not a DoD Equipment Testing Program**

** Available on the JPEO-CBD Website at: http://www.jpeocbd.osd.mil/reference.mil in the "Items of Interest"*

The Process


JRO Validation
T&E Assessments & JPEOCBD Procurement
Yes:
Urgent Need Process
Service Procures
Non-Standard Service Need
For War-fight?
Yes:
And Standard Is Met
No
Service Submits to Review Panel
Existing Standards ?
No
Non-Standard Equipment Review Panel Process

What's the "Standard"

- **Look to Approved National Standards as the Baseline**
- **Apply Other Standards (i.e., ASTM, ANSI, NFPA, etc.)**
  - **Materiel Requested by Services but NSERP Approval Required**
- **Way Forward: DHS "Approves" ASTM, ANSI, NFPA as De facto National Standards**
  - **Materiel Required No Longer Requires NSERP Approval**

Service Responsibility

- Select Equipment Based on Need
- Submit Request Containing:
  - Standards/ Requirement/ Need
  - Operational Concept
  - Safety of Use Data
  - Documentation of Test Methods
  - Independent Technical and Operational Test Data
    - All Independent Test and Operational Data is a Service Responsibility…INCLUDING COST OF TESTING
- Plan for all Necessary Training, Sustainment and Logistics Support*

** Not Part of Approval*

Industry Responsibility

- **Support Services in Selection of Equipment**
- **Provide Technical Data and Test Results**
  - **Independent Test Organization**
  - **In the Absence of Standards, Performance/ Capabilities Provided**
- **Assist in Preparation of Approval Package**
- **Provide Additional Information as Needed**

Panel Responsibilities

- Conduct Technical Review of Service Proposal
- Develop Recommendations for JPEO Approval
- Provide Feedback to the Service
- Provide Assistance Upon Request
- Publish Panel Results- Web-based
  - An Equipment Database Will be Established
  - Panel Adjudication Will Occur Within 30 Days

JPEO Approval

- Approves Specific Service Procurement
- Does Not Change Service Procurement Requirements/ Process
- Does Not Authorize Sole Source Procurement
- Equipment Database on Web

SAFE & EFFECTIVE

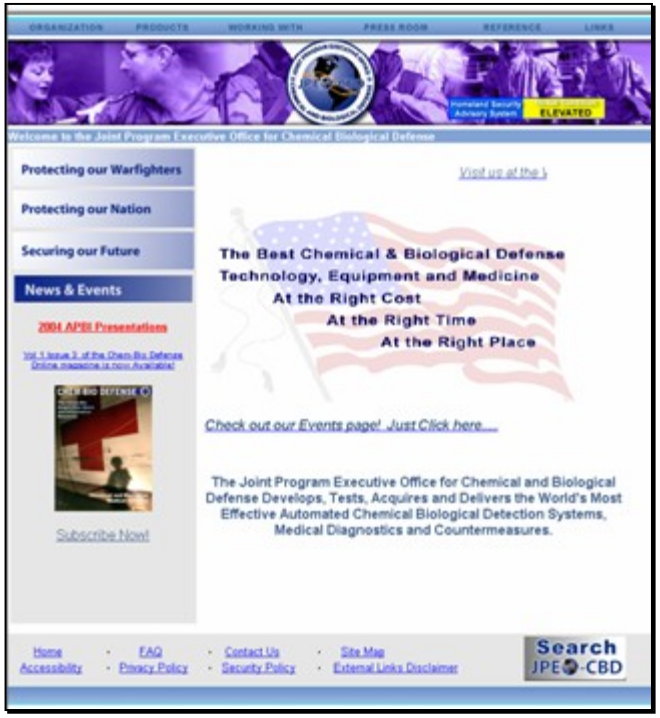
DoD/ Service Benefits

- **Safe and Effective Capabilities and Materiel are Procured**
- **Centralized Data Base of Approved Items**
- **Process for Non-Standard Equipment Procurement**
- **Eventual Interoperability With Local First Responder Equipment**
- **Centralized Push to Adopt National Standards as Acceptable Baselines for Procu**

Next Step:
- **Publish Service Guidebook**
- **Full Policy Implementation NLT Dec**

"Shameless Advertising"

www.jpeocbd.osd.mil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Securing our Future
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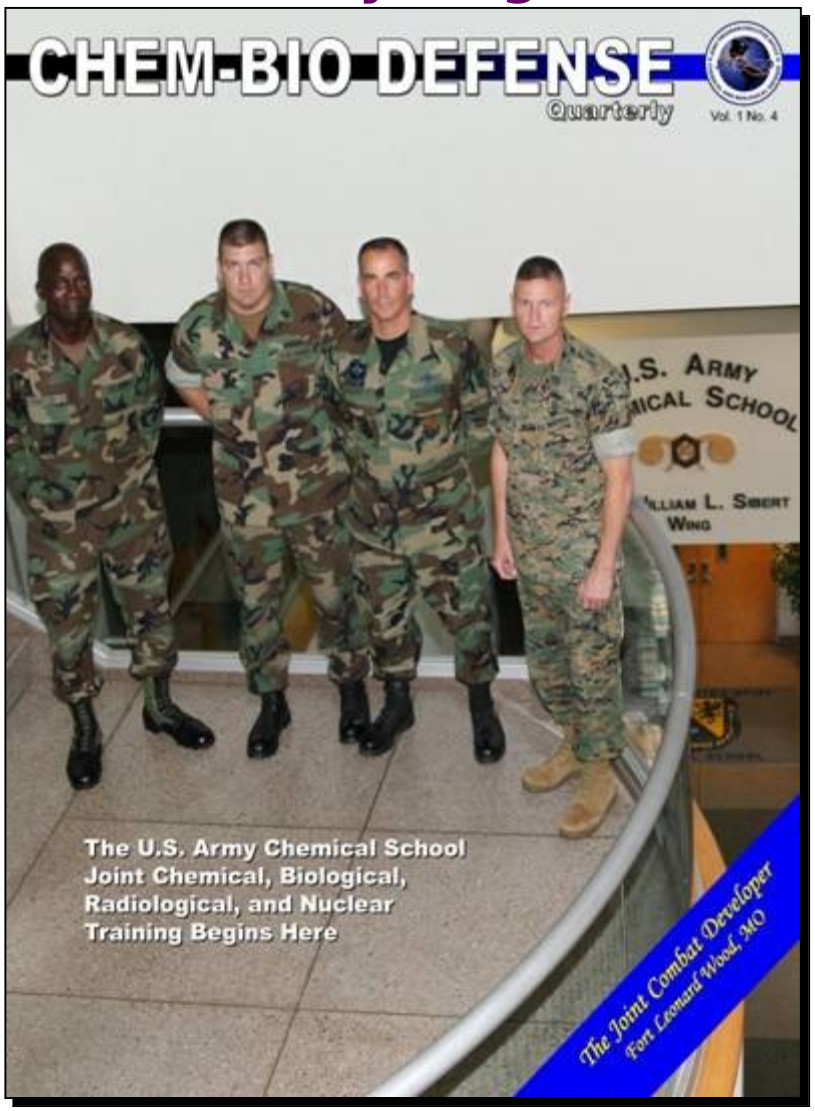
Quarterly Magazine



Business Information Web Sites

Joint Program Executive Office for Chemical and Biological Defense Web Site:

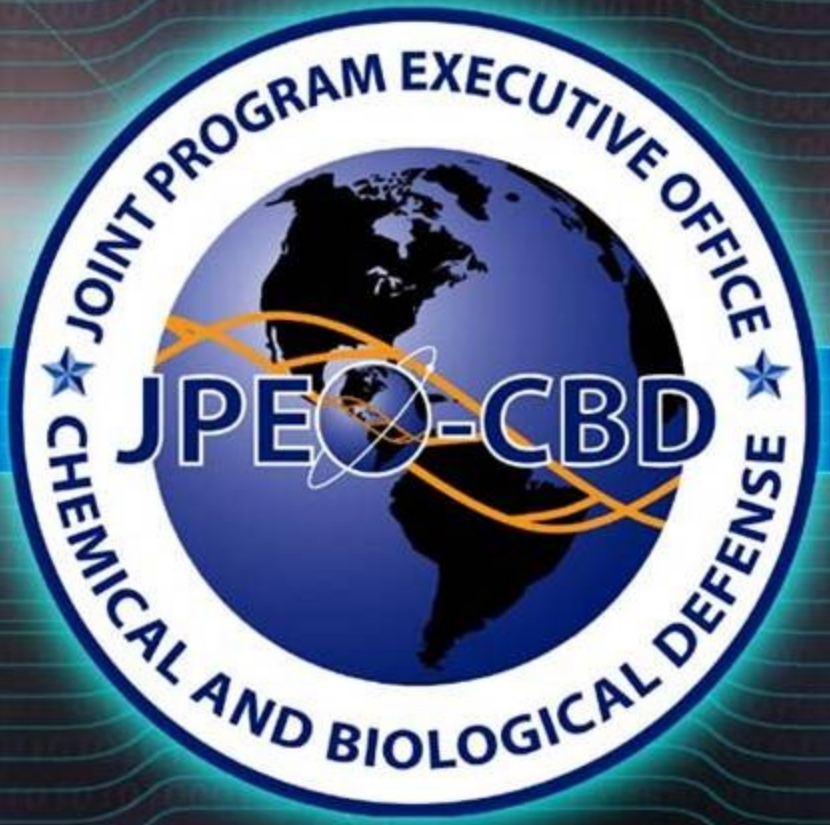
http://www.jpeocbd.osd.mil

Federal Business Opportunities Web Site:

http://www.fedbizopps.gov

The Reason for Our Success…

… Our People



http://www.jpeocbd.osd.mi